

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/050057

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/4425 A61P1/04 A61P1/16 A61P3/04 A61P3/10  
A61P9/00 A61P9/10 A61P9/12 A61P11/00 A61P15/10  
A61P25/16 A61P25/28 A61P29/00 A61P31/00 A61P41/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61P A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, EMBASE, BIOSIS, WPI Data, BEILSTEIN Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 840 698 C (CILAG A.G.) 5 July 1952 (1952-07-05)  page 1, line 1 - page 2, line 45	1,6,9, 14,22, 23,27, 30,35, 41, 44-47, 49,55
X	FISCHER L J ET AL: "CHARACTERISTICS OF NICOTINAMIDE AND N-METHYLNICOTINAMIDE PROTECTION FROM ALLOXAN DIABETES IN MICE" TOXICOLOGY AND APPLIED PHARMACOLOGY, ACADEMIC PRESS, vol. 70, no. 1, 1983, pages 148-155, XP008048209 ISSN: 0041-008X the whole document	1,6,9, 15,22, 23,27, 30,36, 40, 44-47, 49,54

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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

23 September 2005

Date of mailing of the international search report

30/09/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>FILETTI, S. ET AL: "Insulin receptor down-regulation: prevention at a postreceptor site" ENDOCRINOLOGY, 108(6), 2409-11 CODEN: ENDOAO; ISSN: 0013-7227, 1981, XP008048210</p> <p>the whole document</p>	<p>1,6,9, 15,22, 23,27, 30,36, 40, 44-47, 49,54</p>
X	<p>GEBICKI, JERZY ET AL: "1-Methylnicotinamide: a potent anti-inflammatory agent of vitamin origin" POLISH JOURNAL OF PHARMACOLOGY, 55(1), 109-112 CODEN: PJPAE3; ISSN: 1230-6002, 2003, XP008048213</p> <p>the whole document</p>	<p>1,2,4,6, 19,22, 23,27, 40, 44-46, 49,54</p>
X	<p>WO 00/40559 A (TECHNICAL UNIVERSITY OF LODZ; GEBICKI, JERZY; SYSA-JEDRZEJOWSKA, ANNA;) 13 July 2000 (2000-07-13)</p> <p>claims 1-20</p>	<p>45</p>
X	<p>LEA M A ET AL: "EFFECTS OF NICOTINAMIDE AND STRUCTURAL ANALOGS ON DNA SYNTHESIS AND CELLULAR REPLICATION OF RAT HEPATOMA CELLS" CANCER BIOCHEMISTRY BIOPHYSICS, GORDON AND BREACH SCIENCE PUBLISHER, INC, US, vol. 7, no. 3, 1984, pages 195-202, XP002040059</p> <p>ISSN: 0305-7232</p> <p>the whole document</p>	<p>1,9,11, 22,30, 34,40, 44-46,54</p>
X	<p>FUKUSHIMA, TETSUHIITO ET AL: "Possible role of 1-methylnicotinamide in the pathogenesis of Parkinson's disease" EXPERIMENTAL AND TOXICOLOGIC PATHOLOGY, 53(6), 469-473 CODEN: ETPAEK; ISSN: 0940-2993, 2002, XP008048214</p> <p>the whole document</p>	<p>1,12,19, 31,45</p>
X	<p>FUKUSHIMA T ET AL: "RADICAL FORMATION SITE OF CEREBRAL COMPLEX I AND PARKINSON'S DISEASE" JOURNAL OF NEUROSCIENCE RESEARCH, WILEY-LISS, US, vol. 42, no. 3, 1995, pages 385-390, XP008048220</p> <p>ISSN: 0360-4012</p> <p>abstract</p>	<p>1,12,19, 31,45</p>

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International Application No  
PCT/EP2005/050057

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>HIROSHI TAGUCHI: "VITAMINS AND APOPTOSIS-INDUCTION OF APOPTOSIS IN HUMAN CANCER CELLS BY NICOTINIC ACID-RELATED COMPOUNDS"</p> <p>KASSEI SANSEI, FURI RAJIKARU - JOURNAL OF ACTIVE OXYGENS AND FREE RADICALS, MEDIKARU RABYUSHA, OSAKA, JP,</p> <p>vol. 14, 1999, pages 23-28, XP008048448</p> <p>ISSN: 0915-8847</p> <p>abstract</p>	45

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### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Although claims 22-44 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.**
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

### Information on patent family members

PCT/EP2005/050057

Form PCT/ISA/210 (patent family annex) (January 2004)

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050057

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0040559	A	RU 2199319 C1 SK 9512001 A3	27-02-2003 03-12-2001
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